

أسئلة التحليل الإحصائي الفصل الأول لعام ١٤٣٧ هـ نموذج B

:P(S) , 7 s -  
 8 .  
 12 .  
 64 .  
 128 .  
 .. 128 8 128 \_  
 -  
 80 100  
 %99 10  
 :  
 (81.96 . 78.04) .  
 (82.58.77.42) .  
 (102.19.97.81) .  
 (165.73.34.73) .

:SPSS -

**T- TEST**

**One- Sample test**

Test Value =3.5						
	t	df	Sig.(2-tailed)	Mean Difference	95% Confidence Interval of the Difference	
					Lower	Upper
	-2.0215	999	0.048	-6.144	-6.12435	-5.0445

:-

د.  
 -  
 أ.  
 ب.  
 ج.  
 د.

.40

.20

-

:

أ. 0.50

ب. 0.40

ج. 0.20

د. 2

6

-

6 .

ب. 0.50

ج. 0.0892

د. 0.5354

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..... -

أ.

ب.

ج.

د.

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(11) (10)

SPPS

%5

**Test Statistics**

	<b>SAMPLES</b>
Mann-Whitney U	22.000
Z	-0.2285
Asymp . Sig (2-tailed)	0.024
Exact Sig .[2*(1-tailed Sig)]	0.042

2

t

(14) (13) (12)

:(%5 )

N		500
Normal Parameters	Mean	84
	Std. Deviation	16.75
Most Extreme Differences	Absolute	65
	Positive	65
	Negative	-84
Kolmogorov-Smirnov Z		.067
Asymp . Sig (2-tailed)		.082
a. Test distribution is Poisson		b. Calculated from data

65 .  
16.75 .  
84 .  
500 .

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(16) (15)

$X_1 = 6.5, X_2 = 7.2, n_1 = 150, n_2 = 130, \sigma^2_1 = 1.5, \sigma^2_2 = 0.75$

%5

:-

**$H_0: \mu_1 = \mu_2, H_1: \mu_1 > \mu_2$**  .

**$H_0: \mu_1 = \mu_2, H_1: \mu_1 \neq \mu_2$**  .

**$H_0: \mu_1 = \mu_2, H_1: \mu_1 < \mu_2$**  .

**$H_0: \mu_1 < \mu_2, H_1: \mu_1 \neq \mu_2$**  .

: Z

5.44 .  
-0.7 .  
-5.57 .  
0.1256 .

(18) (17)

:5% (2 )

**Test Statistics**

	Value	df	Asymp . Sig (2-tailed)
Person Chi-Square	5.8488	9	0.1311
Likelihood Ratio	6.9016	9	0.1302
Linear-by-Linear Association	0.7152	3	0.117
N of Valid Cases	96		

: 2

5.8488 .  
5.9016 .  
0.7152 .  
0.1311 .

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(20) (19)

600

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0.84

7.5

7.15

"% 5

(

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**H<sub>0</sub> :  $\mu_1 = \mu_2$  , H<sub>1</sub> :  $\mu_1 \neq \mu_2$  .**

**H<sub>0</sub> :  $\mu_1 = \mu_2$  , H<sub>1</sub> :  $\mu_1 > \mu_2$  .**

**H<sub>0</sub> :  $\mu_1 = \mu_2$  , H<sub>1</sub> :  $\mu_1 > \mu_2$  .**

**H<sub>0</sub> :  $\mu_1 < \mu_2$  , H<sub>1</sub> :  $\mu_1 < \mu_2$  .**

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-

7.15 .

7.5 .

0.0978 .

10.206 .

(22) (21)

:(5% )

F	Means	df	ss	
	.....	.....	120	Between groups
.....	.....	6	.....	Within groups
		18	150	Total ( )

: F -  
15 .  
2 .  
12 .  
0.8 .  
-  
: (6.98  
.  
.  
.  
.

F )

(24) (23)

%65

100

%58

"%5

%65

%65

Ho: P=0.65 , H1: P>0.65 .

Ho: P=0.58, H1: P>0.58 .

Ho: P=0.65 , H1: P<0.65 .

Ho: P=0.58, H1: P<0.58 .

:(-1.645 Z )

( . - )

: (26) (25)  
 1500 8000 "  
 2013  
 75 2015  
 10000  
 :5% 2013  
 : Z -  
 1.1547 .  
 11.547 .  
 -1.1547 .  
 -11.547 .  
 :(1.645 Z ) -  
 .  
 .  
 .  
 .

: (28) (27)  
 (r=.75 )  
 :%5 (n=15 )  
 : t -  
 0.0337 .  
 0.1834 .  
 0.75 .  
 4.0883 .  
 : (3.248 , -3,248) -  
 .  
 .  
 .  
 .

(30) (29)

:

2100	1100	1000	
2800	1300	1500	
4900	2400	2500	

95%

:

.....	.....			
.....	.....	.....	1000	-
.....	.....	.....	1500	-
.....	.....	.....	1100	-
.....	.....	.....	1300	-
.....	.....	.....	4900	

2

:

4.762

17.014

4900

5.102

2

)

(0.14, 15.82)

(32) (31)

D C B A

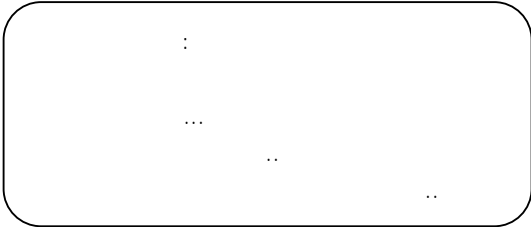
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:

$A \cup B \cup C \cup D$   
 $\bar{A} \cap \bar{B} \cap \bar{C} \cap \bar{D}$   
 $A \cap B \cap C \cap D$   
 $A \cap B \cap C \cap \bar{D}$





$$\begin{aligned}
 & A \cup B \cup C \cup D \\
 & A \cap \bar{B} \cap \bar{C} \cap \bar{D} \\
 & \bar{A} \cap B \cap C \cap D \\
 & A \cup \bar{B} \cup \bar{C} \cup \bar{D}
 \end{aligned}$$

	(35)	(34)	(33)
100	500		
0.2031			
0.3020			
0.2684			
0.1074			
0.2013			
0.3020			
0.2684			
0.1074			
0.15			
5			
8			
2			

	(38)	(37)	(36)
0.5	4		
47.73%			
95.45%			
99.74%			
49.87%			



: (44) (43) (42)

800

"

1000

15

: "0.01=  $\alpha$

: -

**H<sub>0</sub>:  $\mu_1=\mu_2$  ,H1:  $\mu_1> \mu_2$  .**

**H<sub>0</sub>:  $\sigma^2=800$  ,H1:  $\sigma^2 \neq 800$  .**

**H<sub>0</sub>:  $\sigma^2 \leq 800$  ,H1:  $\sigma^2 > 800$  .**

**H<sub>0</sub>:  $\sigma^2 \leq 1000$  ,H1:  $\sigma^2 > 1000$  .**

: 2 -

15 .

800 .

11.25 .

17.5 .

: (15.333 2 ) -

.  
. .  
. .

: (48) (47) (46) (45)

"

1000

500

\_\_\_\_\_  
:

(2)	(1)
n2= 500	n1=500
$\bar{X}_2=83659$	$\bar{X}_1 =84625$
S2=1000	S1=1100

:%5

:

**H<sub>0</sub> :  $\mu_1 > \mu_2$  , H<sub>1</sub> :  $\mu_1 < \mu_2$  .**

**H<sub>0</sub> :  $\mu_1 = \mu_2$  , H<sub>1</sub> :  $\mu_1 \neq \mu_2$  .**

**H<sub>0</sub> :  $\mu_1 = \mu_2$  , H<sub>1</sub> :  $\mu_1 < \mu_2$  .**

**H<sub>0</sub> :  $\mu_1 = \mu_2$  , H<sub>1</sub> :  $\mu_1 > \mu_2$  .**

:

S

1050 .

1051.19 .

32.4047 .

1105000 .

:

t

-21.59 .

14.53 .

-14.53 .

21.59 .

(16.85 t )

5

%5

:

Wilcoxon

spss

**Ranks**

		N	Mean Rank	Sum of Ranks
AFTER-BEFORE	Negative Ranks	4	1.246	22.97
	Positive Ranks	1	1.141	1.141
	Ties	0		
	Total	5		

:SPSS

%5

(A, B, C)

	<b>SAMPLES</b>
Ci-Square	7.524
Df	2
Asymp.Sig	.062

pdf